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(54) **METHODS, SYSTEMS AND COMPUTER PRODUCTS FOR DOWNLOAD STATUS NOTIFICATION**

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G06F 9/445 (2006.01)
H04L 29/08 (2006.01)

(52) **U.S. Cl.**

CPC **H04L 43/08** (2013.01); **G06F 9/445** (2013.01); **H04L 67/06** (2013.01)

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H04N 21/2223; H04L 43/08

USPC 709/204
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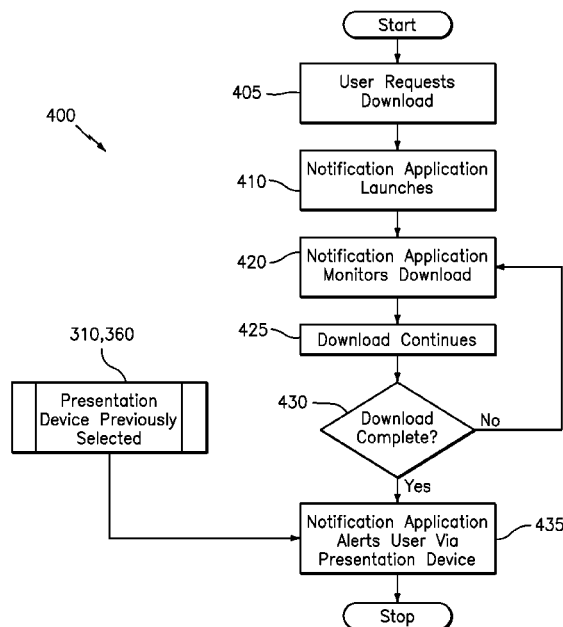
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(57) **ABSTRACT**

Methods, systems, and computer products for download notification including identifying content for download, requesting a download of the content to a device and requesting a notification related to the status of the download.

20 Claims, 4 Drawing Sheets



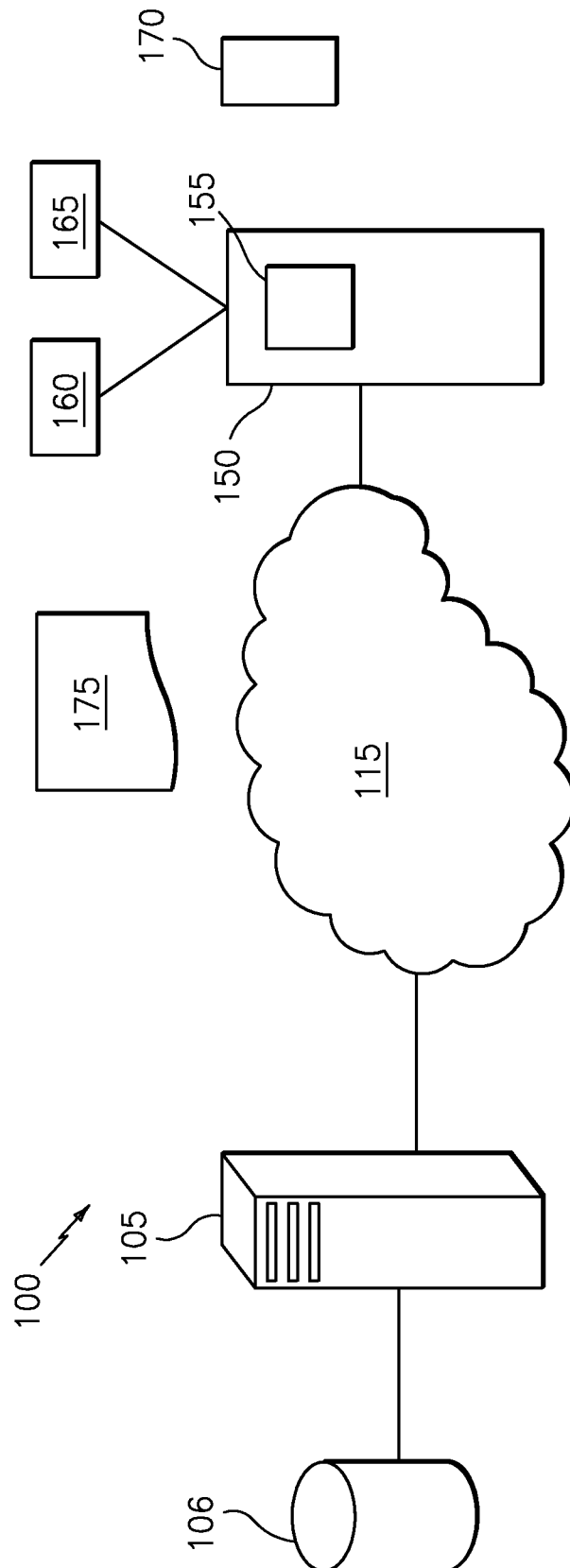


FIG. 1

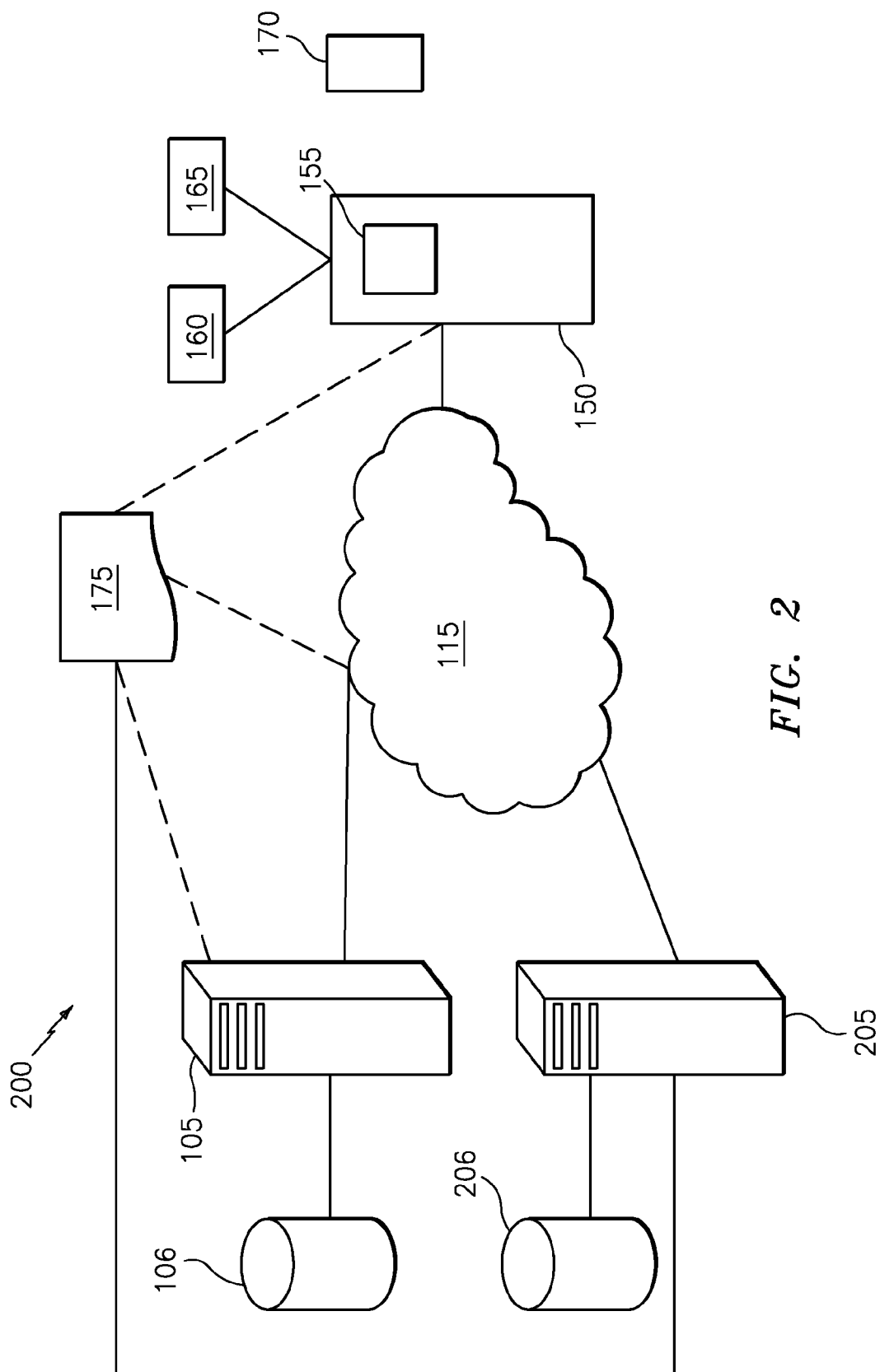


FIG. 2

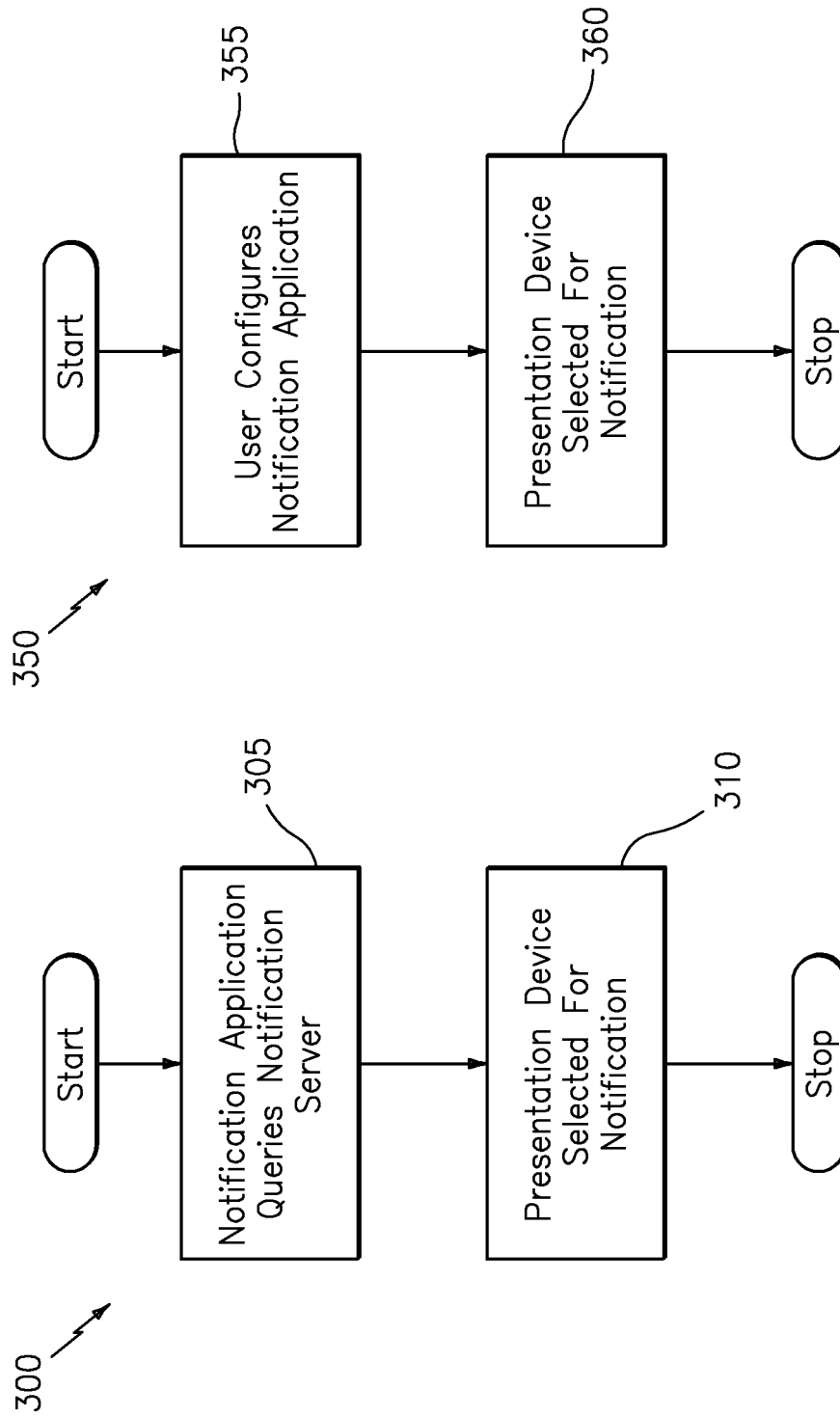
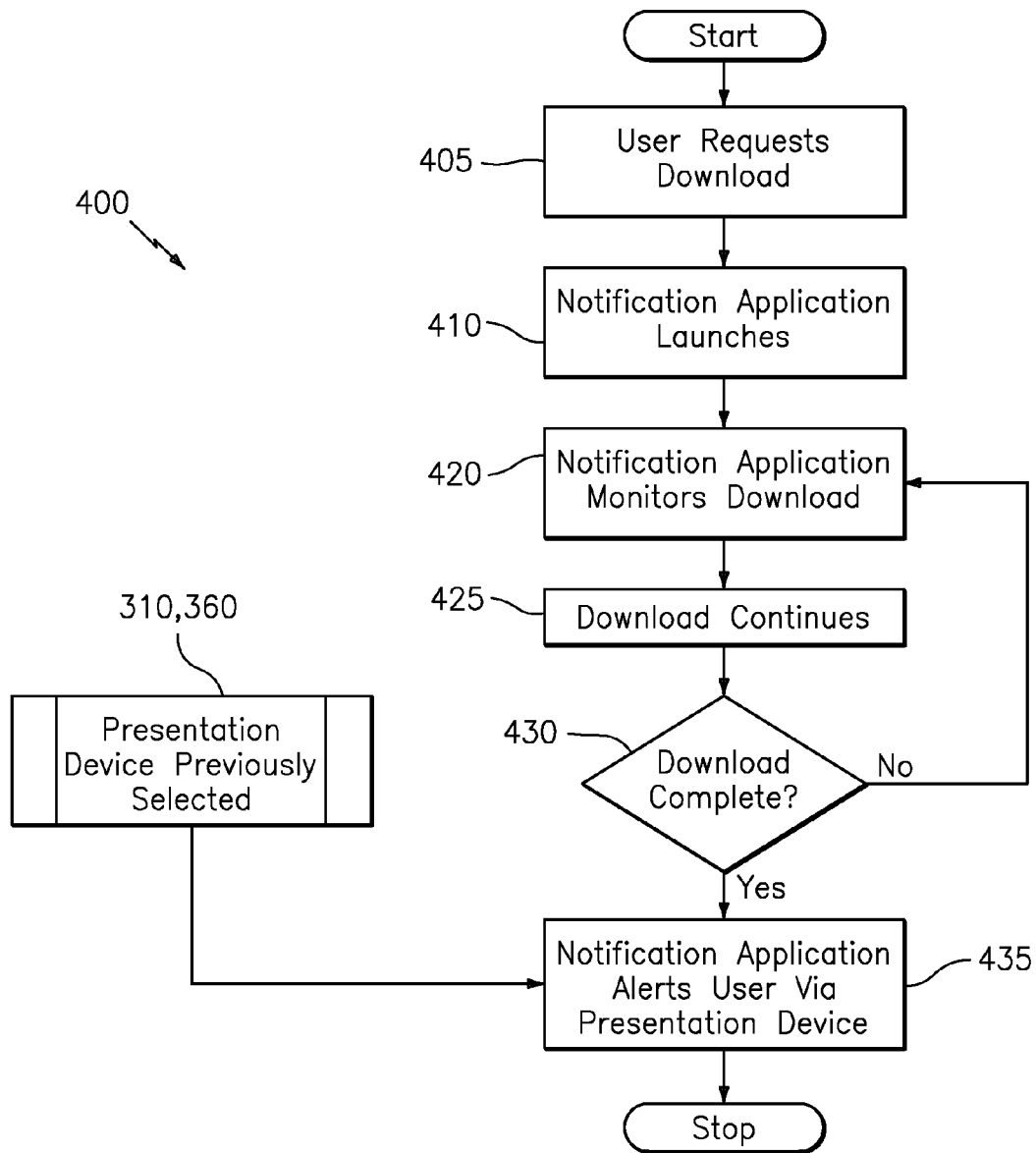


FIG. 3B

FIG. 3A

**FIG. 4**

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METHODS, SYSTEMS AND COMPUTER PRODUCTS FOR DOWNLOAD STATUS NOTIFICATION

CROSS-REFERENCE TO RELATED APPLICATIONS AND PRIORITY CLAIM

This application is a continuation of U.S. Non-Provisional application Ser. No. 11/593,378, entitled "METHODS, SYSTEMS, AND COMPUTER PRODUCTS FOR DOWNLOAD STATUS NOTIFICATION", filed Nov. 11, 2006, which is incorporated herein by reference in its entirety.

BACKGROUND

The present invention relates generally to programming services, and more particularly, to methods, systems, and computer products for notifying a user when a requested download session from a content provider has been complete.

In order for a user to utilize web content, the content must be downloaded from a network server to a content receiving/presenting device. The content receiving device generally presents the content to the user, or processes the content for some purpose. Originally, Internet content included text and static images, which were displayed by a browser program running on a personal computer or workstation. Information was often provided over a low speed dial-up connection.

As Internet uses have grown, the types of content have increased (e.g., audio and video), and the types of presentation devices have also increased (e.g., cell-phones, pocket PC, wireless PDA, iPOD®, etc.) In addition, a variety of Internet access networks at a variety of speeds are available, including digital subscriber line (DSL), cable, wireless local area networks (WLAN or Wi-Fi), Worldwide Interoperability for Microwave Access (WiMAX), General Packet Radio Service (GPRS), etc. The length of time required to transfer a complete item of content is proportional to the size and nature of the file, and inversely proportional to the speed of the data connection, and the processing power of the sending and receiving devices. Today's users expect content and broadband providers to provide content (video, audio, images, software updates) in a timely manner. However, as content grows more complex (e.g., HDTV), and networks more crowded, downloads to some devices may not be immediate. In some cases, a less expensive, lower-speed download may be an acceptable choice. Unless the user sits staring at the destination device, the user may not be aware when the content has been downloaded and is ready for use.

In some cases, the presentation device can begin to present the data being downloaded, after a short initial buffering period. But in other cases, the complete content must be downloaded before presentation or processing can start. In still other cases, the user may simply prefer to download the file for later use, in the way that a Netflix® user orders movies for later use, for example.

What is needed, therefore, is a way to notify a user when a download request is complete and that the requested content is now available for use.

BRIEF SUMMARY

Exemplary embodiments include a download notification method, including identifying content for download, requesting a download of the content to a device and requesting a notification related to the status of the download.

Additional exemplary embodiments a download notification system coupled to a network, including a presentation

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device for receiving a notification related to a content download and a download notification application residing on at least one of the network, the presentation device and a content services provider device, the download notification application having instructions to identify the presentation device, monitor the download and send a notification to the presentation device upon a download event.

Further exemplary embodiments include a computer program product for providing download notification services, the computer program product including instructions for implementing a method, including identifying a device for receiving downloaded content, identifying a presentation device for receiving a notification related to the downloaded content, determining a location from which notification is sent, communicating with a notification server to receive notification preferences related to the downloaded content, monitoring the downloading process of the downloaded content and sending a download notification to the presentation device in response to a download event on the device for receiving the downloaded content.

Other systems, methods, and/or computer program products according to embodiments will be or become apparent to one with skill in the art upon review of the following drawings and detailed description. It is intended that all such additional systems, methods, and/or computer program products be included within this description, be within the scope of the exemplary embodiments, and be protected by the accompanying claims.

BRIEF DESCRIPTION OF DRAWINGS

Referring now to the drawings wherein like elements are numbered alike in the several FIGURES:

FIG. 1 is a block diagram illustrating a system in which download notification services may be implemented in accordance with exemplary embodiments;

FIG. 2 is a block diagram illustrating a system in which download notification services may be implemented in accordance with exemplary embodiments;

FIG. 3A is a flow diagram describing processes for implementing presentation device selection services in exemplary embodiments;

FIG. 3B is a flow diagram describing processes for implementing presentation device selection services in exemplary embodiments;

FIG. 4 is a flow diagram describing a process for implementing download notification services in exemplary embodiments;

The detailed description explains the exemplary embodiments, together with advantages and features, by way of example with reference to the drawings.

DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

In general, exemplary embodiments include methods and systems that notify a user who has requested a download session when a download session has stopped. Further, in accordance with exemplary embodiments, service for customer notification via email, SMPP or other alerts when a requested download session from a content provider has been successfully completed to any receiving device (e.g., cell-phone, smart phone, PDA, laptop, desk top, etc.) are provided. A similar notification can be made if the download is unsuccessful. Exemplary embodiments apply to cases when a complete file must be downloaded in order to properly process or otherwise use, and the transfer time is greater than the

user wants to wait for completion. Further exemplary embodiments include a method for detecting the initiation of a file transfer, waiting for termination of the file transfer, and notifying the user that the transfer has terminated. In one implementation, detection occurs at the server end. In another implementation, detection occurs at the client end. In another implementation, detection occurs in the transport network. Exemplary embodiments further include a system that notifies the user whenever the transfer of the content (e.g., a movie, album, song, ring-tone, etc.) has stopped. The stop may be normal completion, or it may be due to an error.

As discussed, the systems and methods described herein can notify a user when the transfer time is greater than the user wants to wait for completion. For example, for a large file such as a movie, a user can be notified via a notification application when the movie has downloaded. As such, the user can direct his attention to another task while the movie is downloading and be notified once the download is complete. In another example, if the user has a low-speed less-expensive transfer method for any type of file, the notification application can be implemented to alert the user. In another example, a network operator could provide a transport service that uses idle network capacity, and can, in one instance, implement “trickle charging,” to deliver a file prior to a desired time of receipt. The term “trickle charging” refers to automated background downloading of content which is stored near the user, e.g. on the user’s premises or a nearby network element, for later use. Content may be trickle-charged following an explicit request by a user, or may be “pushed” toward the user as a result of a network prediction that many users in an area may desire to view said content simultaneously. Trickle charging can be implemented to manage content distribution across networks with finite carrying capacity.

The term “file” is used to include one or more files used to compose a complete item of content, such as the video, audio, and closed-captioning files that make up a movie, etc. The nature of the file(s) being transferred may affect the transfer speed if compression schemes are in use—some files are more “compressible” than others.

FIG. 1 illustrates an embodiment of system 100 in which notification service to a user, when a requested download session from a content provider has been complete, is provided. System 100 generally includes content services provider 105 in communication with presentation device 150 via network 115. In exemplary implementation, a notification application 175 can be made available to the content service provider 105, the network 115, and the presentation device 150. Notification application 175 facilitates the notification service to a user when a requested download session from a content provider is complete.

In exemplary embodiments, content services provider 105 is implemented by a host system (e.g., a high-speed processing device) that provides content to its customers (e.g., a user of presentation device 150), such as television programs, premium programming services, video on demand content, and Internet/Web content (e.g., pod-casts, streaming media, etc.), ring-tones, audio files (e.g., songs, albums, etc.). System 100 can be used for applications that include large files that can take a long time to download. In exemplary embodiments, the provided content is transmitted to customers via a broadband connection over an Internet Protocol (IP)-based network (e.g., network 115). In other exemplary embodiments, system 100 can also be used for applications in which, even though the host system is capable of high-speed data transfer, the user implementing presentation device 150, is only capable of low-speed data transfer. System 100 can further include storage device 106 that is communicatively

coupled to the content services provider 105 (e.g., via physical cabling or wireless means). Additionally, storage device 106 may be in communication with content services provider 105 via one or more networks (e.g., network 115). Storage device 106 may store programming content, as well as programming schedules for the content. In exemplary embodiments, storage device 106 stores records of programming events, and notification events, scheduled for transmission to customers, such as presentation device 150. Content from content services provider 105 can be from a variety of content sources (e.g., motion picture industry, television networks, Internet-based content providers, etc.)

Storage device 106 can be communicatively coupled to the content services provider 105 (e.g., via physical cabling or wireless means). Additionally, storage device 106 may be in communication with content services provider system 105 via one or more networks (e.g., network 115). In one implementation, storage device 106 can include a plurality of downloadable content and can be rendered on presentation device 150, which can be via set top box 160, discussed further in the description below. In other embodiments, content can include play lists that can include programming content, as well as programming schedules for the content (e.g., onscreen programming guide information). In exemplary embodiments, the storage device 120 stores records of programming events scheduled for transmission to customers, such as program receiving device 150. This transmission can be for immediate download or may be available at a future date, and as discussed further below, be provided via trickle charging. These records, in turn, include download information that is utilized by download notification application 175.

As discussed above, presentation device 150 can be any variety of devices that can be used to download, render and process content. In an exemplary implementation, presentation device 150 can be network-enabled and can include, but is not limited to: television (TV); Internet Protocol television (IPTV); cell-phone; smart-phone; PDA; wireless PDA; laptop; desktop; pocket PC; iPOD®, etc. Presentation device 150 may include display screen 155 for viewing or other rendering of content provided by the content services provider system 105 and selected by a user. As described, current program content refers to an application having a large file that can take a period of time to download for which a user is not willing to wait. Display screen 155 includes the ability to display multiple windows such that a user can view a desired window, such as a window playing a movie, and still be able to view a notification window or other notification indication such as an on-screen icon or audible indicator, which can be displayed upon the notification of a download status, as discussed further in the description below.

Program receiving device 150 can also include auxiliary devices, such as set top box 160, personal video recorder (PVR) 165, and device 170, which can be a remote control, cellular phone, PDA, etc. In other exemplary embodiments, described further below, device 170 can be another presentation device similar to presentation device 150. Set top box 165 provides a connection between the presentation device 150 and external sources of signals, converting the signals into content that is displayed on a screen of presentation device 150. Where presentation device 150 is receiving IPTV content, set top box 165 includes a computer that provides bi-directional communications between network 115 and presentation device 150 and decodes the video streaming media received as content programming and onscreen programming information from content services provider system 105. Device 170 can include options (e.g., interface) enabled by the notification for selecting an application that is capable of

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notifying the user that a download is complete. PVR **165** can be communicatively coupled to presentation device **150** and records programming as configured by a user of the presentation device **150**. In exemplary embodiments, downloads can be coupled to presentation device **150** and PVR **165** such that a download can be trickle charged not only to presentation device **150** but also to PVR **165**. As such, movies and other files and applications can be pre-provided to customers prior to a release date such that the file is available to the user on the release date. A download notification can then be sent to the user that the movie or file is now available for use. In another implementation, if the content services provider has trickle charged a file to a user in anticipation of a release date, but the file has completely downloaded prior to the release date, the content services provider can delay notification until the release date.

In accordance with exemplary embodiments, network **115** is an IP-based network that transmits programming content from content services provider system **105** to customers, such as program receiving device **150** via a data connection. Network **115** may be implemented in a wireless fashion, e.g., using wireless protocols and technologies, such as WiFi, WiMax, etc.

As mentioned above, system **100** further includes download notification application **175**. Download notification application **175** is configured to monitor download progress and notify the user who requested a download of the download success or failure. Download notification application **175** and related download notification enabled services may be implemented as a single program executing on one of content services provider **105**, network **115** and presentation device **150**, or may be separate physical or logical components that interact via, e.g., an application programming interface or other technique. In general, download notification application **175** can reside in a number of locations within system **100** and uses existing network resources for the notification services. In exemplary embodiments, download notification application **175** can reside on content services provider system **105**. In other exemplary embodiments, download notification application **175** can reside on network **115**. In further exemplary embodiments, download notification application **175** can reside on presentation device. These exemplary embodiments and others are now described.

FIG. 2 is a block diagram illustrating a system **200** in which download notification services may be implemented in accordance with exemplary embodiments. Similar to as described above, system **200** includes content services provider **105** in communication with presentation device **150** via network **115**. Storage device **106** is coupled to content services provider **105**. Notification application **175** facilitates the notification service to a user when a requested download session from a content provider is complete. The dashed lines connected between notification application **175** and each of content services provider **105**, network **115**, and presentation device **150** are illustrated to indicate that notification application **175** can reside on any of the aforementioned. Three exemplary locations in which notification application **175** can reside are discussed above, that is, content services provider **105**, network **115** and presentation device **150**. Regardless of the location of notification application **175**, a user can utilize notification application **175** in conjunction with a download session to receive a notification of when the download has completed.

FIG. 2 further illustrates notification server **205** coupled to network **115** and in communication with notification application **175**. System **200** can further include storage device **206** coupled to notification server **205**. In an exemplary

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embodiment, storage device **206** can be a notification repository, which can be or previously has been populated with notification preferences and notification devices onto which a user, having access to notification server **205**, has provided and desires to be notified upon a completion (download) event, as discussed further in the description below.

It is appreciated that content services provider **105** and content recipient, presentation device **150**, are mutually aware of a file transfer transaction, since that have agreed on an acceptable transfer method. Often, the size of the transfer is communicated from the source of the file, that is, content services provider **1205**, to the destination, that is, presentation device **150**. Using this file size information, either end of the transaction can detect when a successful transfer has completed. In addition, the transport network, that is network **115**, may be able to monitor the file transfer information exchanged between the source and the destination. Armed with this information, network **115** can also detect the end of a file transfer. Therefore, it is also appreciated that notification application can reside and be utilized by any of the three aforementioned locations.

It is appreciated that under certain circumstances, network **115** may not be able to monitor the details of the file transfer request (e.g., if the details are encrypted), but network **115** may still be able to determine that a file transfer is taking place by analyzing the source, destination, and traffic patterns of a series of packets. There may also be circumstances in which network **115** is completely unable to detect the beginning and the end of a file transfer.

In any of the cases described, and in other cases, if a transfer stops, whether at a successful conclusion, or due to a fault of some sort, the detecting system (e.g., content service provider **105**, network **115**, presentation device **150**, etc.) can send a message to notification server **205** to alert the subscriber. If the status of the transfer is known (e.g., successful, stopped for unknown reason, etc.), the status can be included in the notification. For example, a notification message can be that the download is successful. In addition, in many circumstances a download may only be usable, such as a movie file protected by certain digital rights management systems, when the download is complete. Therefore a notification can first include a message that the entire file is required before use and then a download complete notification can be sent to the user upon complete file download. In another example, if a file can be viewable when a certain amount of the file has been buffered, a first notification message can alert the user that when a certain buffer is attained, the file is usable. Then when that buffer is reached, the user can further be notified that use (e.g., viewing) is now possible. In still other examples, if a download is unsuccessful, a user can be notified. Specific notification messages can be included such as the reason, including a lost connection with the content services provider, etc. The aforementioned download events and other notification information such as but not limited to: file size, transfer rate, transfer time, etc., are contemplated in various embodiments and implementations known in the art.

Therefore, in exemplary embodiments, detection can be accomplished in many locations via systems **100**, **200**. In an exemplary embodiment, a user can configure notification application **175** at the particular location for a given transaction or for a series of related transactions. For example, a user can configure his own IPTV for download notification preferences for a given movie download from a particular provider. Similarly, the user can configure the download notification preferences for that particular provider for every movie that is downloaded presently and in the future. In another exemplary embodiment, notification server **205** can be

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exploited and pre-populated with download notification preferences based on service plans, etc. Notification server **205** therefore maintains notification destinations and preferences for each associated user. Notification server **205** may be used to indicate multiple events on a variety of devices such as presentation device **150**, based on the user's selected preferences, time of day, nature of notification, etc. For example, notification server **205** may be used to light a light on a landline telephone (which in this case is presentation device **150**), and send an email to a pager (which in this case is an additional presentation device **170**), to indicate a new voice mail. In another example, notification server **205** might activate a desktop client and place a phone call to indicate that a new urgent email message has arrived. In still another example, notification server **205** may send a short message service (SMS) message to a cell phone to indicate a download status.

FIG. 3A is a flow diagram describing processes for implementing presentation device selection services in exemplary embodiments. Two exemplary methods **300**, **350** are illustrated. It is appreciated that other methods are possible. In a first method **300**, a notification server, such as notification server **205** has been pre-populated with notification preferences based on, for example, a service plan. Therefore, at step **305**, when a user has requested a download notification service (see FIG. 4), the notification application **175**, regardless of where it resides (e.g., the three aforementioned locations) queries the notification server **205**. In response to this notification at step **305**, the selected presentation device is selected for notification at step **310**. In one implementation, a user can at times, change notification preferences via a presentation device or another device that is in communication with the user's service plan provider.

FIG. 3B is a flow diagram describing processes for implementing presentation device selection services in exemplary embodiments. In a second method **350**, a user can on a per-transaction basis select the presentation device. For example, each time a user logs into a movie provider service, the user can select a presentation device for notification. Therefore, at step **355**, the user configures the notification application **175** via the particular provider service. In response to this notification at step **355**, the selected presentation device is selected for notification at step **360**. In one implementation, a user can change notification preferences via a presentation device or another device that is in communication with the particular service provider or application.

It is appreciated that the choice of the presentation device for notification can be an on-going process, in which the user can periodically change the presentation device. It is also appreciated that the selected presentation device may not be the same device onto which the desired download is accomplished. For example, a user may use a cell phone as a remote control for his TV. Therefore, the cell phone is device **170** and the TV is presentation device **150**. As such, the user may order a movie via either device **170** or presentation device **150** and in turn select either device **170** or presentation device **150** as the notification presentation device. Similarly, the user may be ordering a download for a child and does not have a concern about being notified about such a download. Therefore, a user can order a download via device **170** for download onto presentation device **150**, in which case is a TV or IPTV, for example. Then the user can specify yet a third device as the notification presentation device. Using the same example, a user can further specify his device **170** as a notification device if the child is ordering a download via a third device. In this way, a user can specify that device **170** be a presentation device for a download. In a specific example, a user can

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specify to be notified when particular content is downloaded, such as an R-rated movie, a song with explicit lyrics or an entertainment software rating board (ESRB) M-rated game, etc. Therefore, it is appreciated that download notifications can take several forms and be spread out over several different devices.

FIG. 4 is a flow diagram describing a process **400** for implementing download notification services in exemplary embodiments. As discussed above, a user can request a download at step **405**. In general, at step **410** a notification application **175** also launches. It is appreciated that regardless of the location of the notification application **175**, the notification application **175** may have been previously launched or launches simultaneously with a download request as needed. At step **420**, the notification application **175** monitors the download. As discussed above, the notification application **175** can send a first notification to alert the user of the type of download. For example, if the download is capable of viewing after a certain buffer is attained, then notification application **175** can first alert the user that the download will be viewable after a certain buffer. The download then continues at step **425**. At step **430**, if the download is not complete the notification application **175** continues to monitor the download at step **420**. Generally, at this point the notification application **175** does not notify the user of any progress. However, in another implementation, the notification application **175** can be configurable to periodically notify the user as of the progress and can ask the user if the user desires to change any preferences at that point, or even cease the download. In another example, the user could also reconfigure notification application **175** to specify a new presentation device for notification or viewing.

Referring still to FIG. 4, at step **430** if the download is complete then the notification application alerts the user via the presentation device. As discussed earlier with respect to FIG. 3, the presentation device was previously selected at steps **310**, **360**. In general, the user receives the downloaded content, and at approximately the same time, receives the notification at step **435**. In another implementation (not shown in the figure), the download at step **440** could be completed following a response from the user that he desires to complete the download after being previously notified of the download progress.

Referring again to FIG. 1, it is therefore appreciated that content services provider **105** includes a media server capable of providing files and applications to a specified device, such as presentation device **150** or device **170**, or other contemplated device. For example, movie services can be provided to a TV via set top box **160** of all subscribers to the content services. Content services provider **105**, network **115** and presentation device **150**, are all capable of running notification application **175** and therefore, being the driving device for notification application **175**. In general, the methods **300**, **350**, **400** monitor the user's activity to make on-going decisions whether or not downloads and related notifications are requested.

As described above, the exemplary embodiments can be in the form of computer-implemented processes and apparatuses for practicing those processes. The exemplary embodiments can also be in the form of computer program code containing instructions embodied in tangible media, such as floppy diskettes, CD ROMs, hard drives, or any other computer-readable storage medium, wherein, when the computer program code is loaded into and executed by a computer, the computer becomes an apparatus for practicing the exemplary embodiments. The exemplary embodiments can also be in the form of computer program code, for example, whether stored

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in a storage medium, loaded into and/or executed by a computer, or transmitted over some transmission medium, loaded into and/or executed by a computer, or transmitted over some transmission medium, such as over electrical wiring or cabling, through fiber optics, or via electromagnetic radiation, wherein, when the computer program code is loaded into an executed by a computer, the computer becomes an apparatus for practicing the exemplary embodiments. When implemented on a general-purpose microprocessor, the computer program code segments configure the microprocessor to create specific logic circuits.

While the invention has been described with reference to exemplary embodiments, it will be understood by those skilled in the art that various changes may be made and equivalents may be substituted for elements thereof without departing from the scope of the invention. In addition, many modifications may be made to adapt a particular situation or material to the teachings of the invention without departing from the essential scope thereof. Therefore, it is intended that the invention not be limited to the particular embodiments disclosed for carrying out this invention, but that the invention will include all embodiments falling within the scope of the claims. Moreover, the use of the terms first, second, etc. do not denote any order or importance, but rather the terms first, second, etc. are used to distinguish one element from another. Furthermore, the use of the terms a, an, etc. do not denote a limitation of quantity, but rather denote the presence of at least one of the referenced item.

What is claimed is:

1. A method for download notification, the method comprising:

identifying a movie;

requesting, by a user device, a download of the movie to the user device;

configuring a notification application of the user device to provide a notification to a user related to a status of the download, wherein the notification application monitors the status of the download;

before the download is complete, receiving at the user device an alert in a notification message for display to the user on a display of the user device, in which the notification message indicates that the download will be viewable on the user device when a certain buffer is attained prior to completion of the download; and

during the download and while the notification application monitors the download, receiving an alert in another notification message displayed on the display of the user device in a notification window, in which the another notification message asks on the display of the user device whether the user desires to change notification preferences at that point for notifying the user about the status of the download of the movie;

wherein the notification preferences are an identification of a notification device upon which the user desires to receive display of the status of the download of the movie including a progress of the download, successful conclusion, and stopped; and

wherein the notification device to receive display of the status of the download of the movie is initially the user device, and the user configures the notification application to change display of the status of the download of the movie from the user device initially used to a new notification device.

2. The method of claim 1, further comprising receiving at the user device an alert in a different notification message for display to the user responsive to the certain buffer being

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attained but before the download is complete, in which the different notification message indicates that the download is now viewable;

wherein the notification message, the another notification message, and the different notification message are via email.

3. The method of claim 1, wherein the notification message further comprises displaying to the user on the user device a successful download in an event of the successful download.

4. The method of claim 1, wherein the notification message further comprises displaying to the user on the user device transfer stopped due to a fault in an event the transfer stopped due to the fault.

5. The method of claim 1, wherein the notification message further comprises displaying to the user on the user device stopped for unknown reason when stopped for the unknown reason.

6. The method of claim 1, wherein the notification message further comprises displaying to the user on the user device the certain buffer is attained such that the download is viewable in an event the certain buffer is attained.

7. The method of claim 1, wherein the notification is related to an unsuccessful download.

8. The method of claim 1, further comprising receiving the movie of the download.

9. The method of claim 1, further comprising requesting that the notification related to the status of the download is received in a presentation device.

10. The method of claim 9, wherein the user device receiving the download is the presentation device.

11. The method of claim 9, wherein the presentation device is connected to the user device receiving the download.

12. The method of claim 1, further comprising receiving the notification from a notification server via a network.

13. A computer program product, tangibly embodied on a non-transitory computer readable medium, for download notification, the computer program product including instructions that, when executed by a computer, cause the computer to perform operations comprising:

identifying a movie;

requesting, by a user device, a download of the movie to the user device;

configuring a notification application of the user device to provide a notification to a user related to a status of the download, wherein the notification application monitors the status of the download;

before the download is complete, receiving at the user device an alert in a notification message for display to the user on a display of the user device, in which the notification message indicates that the download will be viewable on the user device when a certain buffer is attained prior to completion of the download; and

during the download and while the notification application monitors the download, receiving an alert in another notification message displayed on the display of the user device in a notification window, in which the another notification message asks on the display of the user device whether the user desires to change notification preferences at that point for notifying the user about the status of the download of the movie;

wherein the notification preferences are an identification of a notification device upon which the user desires to receive display of the status of the download of the movie including a progress of the download, successful conclusion, and stopped; and

wherein the notification device to receive display of the status of the download of the movie is initially the user

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device, and the user configures the notification application to change display of the status of the download of the movie from the user device initially used to a new notification device.

14. The computer program product of claim 13, further comprising receiving at the user device an alert in a different notification message for display to the user responsive to the certain buffer being attained but before the download is complete, in which the different notification message indicates that the download is now viewable;

wherein the notification message, the another notification message, and the different notification message are via email.

15. The computer program product of claim 13, wherein the notification message further comprises displaying to the user on the user device a successful download in an event of the successful download.

16. The computer program product of claim 13, wherein the notification message further comprises displaying to the user on the user device transfer stopped due to a fault in an event the transfer stopped due to the fault.

17. The computer program product of claim 13, wherein the notification message further comprises displaying to the user on the user device stopped for unknown reason when stopped for the unknown reason.

18. The computer program product of claim 13, wherein the notification message further comprises displaying to the user on the user device the certain buffer is attained such that the download is viewable in an event the certain buffer is attained.

19. The computer program product of claim 13, wherein the notification is related to an unsuccessful download.

20. An apparatus for download notification, the apparatus comprising:

a processor of a user device; and

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memory comprising computer-executable instructions that, when executed by the processor, cause the processor to perform operations comprising:

identifying a movie;

requesting, by the user device, a download of the movie to the user device;

configuring a notification application of the user device to provide a notification to a user related to a status of the download, wherein the notification application monitors the status of the download;

before the download is complete, receiving at the user device an alert in a notification message for display to the user on a display of the user device, in which the notification message indicates that the download will be viewable on the user device when a certain buffer is attained prior to completion of the download; and

during the download and while the notification application monitors the download, receiving an alert in another notification message displayed on the display of the user device in a notification window, in which the another notification message asks on the display of the user device whether the user desires to change notification preferences at that point for notifying the user about the status of the download of the movie;

wherein the notification preferences are an identification of a notification device upon which the user desires to receive display of the status of the download of the movie including a progress of the download, successful conclusion, and stopped; and

wherein the notification device to receive display of the status of the download of the movie is initially the user device, and the user configures the notification application to change display of the status of the download of the movie from the user device initially used to a new notification device.

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